CITY OF CANTON, OHIO

GP 1137-WAYNESBURG DRIVE SE SANITARY SEWER REHABILITATION

(REVISED)

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GENERAL NOTES
STANDARD DETAILS/QUANTITIES SEWER REPLACEMENT SYPASS PUMP PLAN STORMWATER POLLUTION PREVENTION PLAN

PUBLIC AGENCIES/

NATURAL GAS
DOMINION EAST OHIO GAS
DISTRIBUTION & TRANSVISSION
320 SPRINGSIDE DRIVE AKRON, OHIO 44333 ATTN: MARY LONG EMERGENCY NO 1-800-521-4400

COMMUNICATIONS CABLE TIME WARNER CABLE 5520 WHIPPLE AVE N.W. NORTH CANTON, OHIO 44720 330-494-9200, EXT 87 ATTN TIM KNIGHT

SANITARY AND STORM SEWER CITY ENGINEER'S OFFICE 2435-30TH ST N.E CANTON, CHIO 44705 ATTN: DAN MOEGLIN, P.E., S.I. 330-489-3381

WATER DEPARTMENT 2664 HARRISBURG RD. N.E. CANTON, OHIO 44708 330-489-3310 ATTN, LEWI MILLER

ODOT DISTRICT 4 2088 SOUTH ARLINGTON ROAD AKRON, OHIO 44306 ATTN: KEN GREENE

TELEPHONE 50 WEST BOWER STREET AKRON, OHIO 44308 330-384-8057 ATTN: JIM BUETEL EMERGENCY NO. - 24 HRS -800-572-4545 OPTION#4

ELECTRIC AMERICAN ELECTRIC POWER 301 CLEVELAND AVE. S.W P.O. BOX 24400 CANTON, OHIO 44701-4400 330-438-7762 ATTN: KEN HUOT EMERGENCY NO 1-800-672-2017

SANITARY SEWER STARK COUNTY SANITARY 1701 MAHONING ROAD NE CANTON, OHIO 44705 330-451-2303 ATTN JIM JONES, P.E.

TRAFFIC INTERCONNECT CITY ENGINEER'S OFFICE 2436-30TH ST. N.E. CANTON, OHIO 44705 330-489-3370 ATTN NICK LOUKAS, P.E.

CANTON TOWNSHIP
ROAD SUPERINTENDANT
4711 CENTRAL AVE. S.E.
CANTON, OHIO 44707 330-484-2501 ATEN: TOM HEWITT

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ENGINEER / LSURVEYOR ...

HAMMONTREE & ASSOCIATES, LTD. NORTH CANTON, DHID 44729

TELE:

THOMAS POWELL, P.E. (330) 499-8817 (330) 499-0149

THE OWNER

CITY OF CANTON, OHIO 2436 30TH STREET N.E. CANTON, OHIO 44705

DANIEL MOEGLIN, P.E., S.I. (330) 489-3381 (330) 489-3337

2 WORKING DAYS BEFORE YOU DIG CALL FOLL FREE 800-362-2764 APPROVALS

TANKER R. POWELL. APPROVED BY: P.E.-HAMMONTRES REGISTERED ENGINEER NO. E-45970

FEBRUARY 13, 2011

APPROVED BY: ODOT VIA PERVIT STA 43-59 DATED: WLY-20, 2010

MODIFICATIONS DATED 15-73 11/1/2010 SHOP

RE- BID MODIFICATIONS DRIED 1/14/2015

APPROVED BY DOUGLAS J. FARRIS, P.E - SANITARY ENGINEER, CANTON REGISTERED ENGINEER NO. 70789

CHOCKY OFFICIALS SEE

WILLIAM J. HEALY II SERVICE DIRECTOR: WARREN R. PRICE SAFETY DIRECTOR THOMAS REAM

COUNCIL MEMBERS GREG HAWK WARD 2: THOMAS E. WEST JAMES E. GRIFFIN WARD 4 CHRIS SMITH TERRY PRATER WARD 6 DAVID R. DOUGHERTY WARD 7 PATRICK BARTON WARD 8: MARK BUTTERWORTH WARD 9: BRIAN HORNER AT-LARGE: MARY M. CIRELLI AT-LARGE: JOE COLE

COUNCIL PRESIDENT: ALLEN SCHULMAN

AT-LARGE BILL SMUCKLER

& ASSOCIATES, I. serventes, serve ROAD R817

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2008 SPECIFICATIONS

THE WORK UNDER THIS PROJECT SHALL COMPLY WITH THE GENERAL, SUPPLEMENTAL AND TECHNICAL SPECIFICATIONS PROVIDED WITH THE CONTRACT. THE CITY OF CANTCH, STANDARD CONSTRUCTION DRAWINGS AND THE LATEST EDITION OF TRANSPORTATION, CONSTRUCTION AND MATERIAL SPECIFICATIONS

ROOF DRAINS, FOUNDATION DRAINS AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROMIBITED

I. PRECONSTRUCTION INCIDENTALS

(A) PPOLECT SPECIFICATIONS/REQUIREMENTS

ALL WORK REQUIRED TO COMPLETE THIS IMPROVEMENT SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATIONS/REQUIREMENTS OF THE CITY OF CANTON AND THE LATEST EDITION OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, EXCEPT AS HEREIN AMENDED. IN THE CASE OF A CONFLICT SETWEEN THE CITY OF CANTON AND THE OHIO DEPARTMENT OF TRANSPORTATION SPECIFICATIONS/REQUIREMENTS, THE CITY OF CANTON REQUIREMENTS WILL TAKE PRECEDENCE, UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.

THE CONTRACTOR SHALL COMPLY WITH THE CITY OF CANTON SUPPLEMENTAL SPECIFICATION 01-00 PROJECT DOCUMENTATION AND SUBMITTAL REQUIREMENTS.

(8) ADMINISTRATIVE REQUIREMENTS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULLY COMPLYING WITH ALL THE ADMINISTRATIVE DUTIES HEREIN CONTAINED.

THE CONTRACTOR SHALL DESIGNATE TO THE CITY AN EMPLOYEE RESPONSIBLE FOR CORRESPONDENCE, NOTIFICATIONS, AND SUBMITTALS PERTINENT TO THE PROJECT

(C) PRECONSTRUCTION MEETING

A PRECONSTRUCTION MEETING WITH THE CONTRACTOR, REPRESENTATIVES OF ALL UTILITY COMPANIES, THE CITY OF CANTON ENGINEERING DEPARTMENT AND THE CITY OF CANTON WATER DEPARTMENT IS REQUIRED FOR THIS PROJECT PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY.

FOR CITY CENERAL PROJECTS, THE CITY ENGINEER WILL CONTACT THE CONTRACTOR TO ARRANGE A MEETING DATE. THE CITY ENGINEER WILL CONTACT THE ABOVE AGENCIES TO CONFIRM THE MEETING DATE

10: PROJECT SAFETY

THE CONTRACTOR SHALL MAINTAIN A SAFE WORKING ENVIRONMENT AT THE PROJECT SITE AT ALL TIMES THE CONTRACTOR SHALL PROPERTLY SUPPORT AMOJOR MAINTAIN ALL EXCAVATIONS PER APPLICABLE SAFETY REQUIREMENTS AND COMPLY WITH ALL OS HA REGULATIONS ADEQUATE BARRICADES, WARNING LIGHTS, SIGNS, FENCING, ETC SHALL BE ERECTED AROUND THE CONSTRUCTION AREA DURING ALL NON-WORKING HOUS' TO ALERT PERSONS OF THE POTENTIAL DANGER ASSOCIATED WITH THE AREA UNDER CONSTRUCTION AS WELL AS TO PREVENT ACCESS BY UNADTHORIZED PERSONNEL TO THE CONSTRUCTION SITE/AREA THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THE SAFETY OF THE GENERAL PUBLIC AS WELL AS ALL CONSTRUCTION PERSONNEL PUBLIC STREETS SHALL BE KEPT CLEAN AND FREE OF DEBRIS (MUD, STONE, ETC.) AT ALL TIMES THE CONTRACTOR SHALL ALERT ALL LOCAL EMERGENCY AGENCIES (FIRE, POLICE, AMBULANCE, ETC.) OF THE NATURE OF THE PROPOSED PROJECT PRIOR TO BEGINNING AND CONSTRUCTION ACTIVITY ACCESS FOR EMERGENCY VEHICLES SHALL BE MAINTAINED AT ALL TIMES.

(E) UNDERGROUND UT THE

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THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLANS WERE OBTAINED BY FIELD OBSERVATIONS, FROM EXISTING RECORDS. AND/OR FROM THE OWNERS OF THE RESPECTIVE UTILITIES. THE INFORMATION AS SHOWN IS BELIEVED TO BE CORRECT, HOWEVER, THE COMPLETENESS AND ACCURACY OF THIS INFORMATION CANNOT BE GUARANTEED THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT ALL THE VARIOUS UTILITY COMPANIES (PUBLIC AND PRIVATE) TO VERIEV THE EXISTENCE, LIMITS AND/OR LOCATION OF ANY UTILITIES WHICH MAY BE ALONG THE ROUTE OR WITHIN THE VICINITY OF THIS IMPROVEMENT.

(F, UTILITY NOTIFICATION

AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING OPERATIONS ON THIS PROJECT, THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER, THE REGISTERED UTILITY PROTECTION AGENCY/SERVICE. AND THE OWNERS OF ANY OTHER UTILITIES (PUBLIC AND/OR PROJET) THAT MAY HAVE UTILITY LINES OR FACILITIES WITHIN THE VICINITY OF THIS PROJECT BUT WHO APE NOT MEMBERS OF THE REGISTERED UTILITY PROTECTION SERVICE. THE OWNERS OF ANY UNDERGROUND UTILITY FACILITY SHALL, WITHIN 4B HOURS AFTER NOTICE IS RECEIVED, EXCLIDING SATURGAYS, SUNDAYS AND OTHER ESCAL HOLIDAYS; STAKE, MARK OR OTHERWISE DESIGNATE THE EXISTENCE AND/OR LOCATION OF THE UNDERGROUND UTILITY FACILITIES IN THE CONSTRUCTION AREA IN SUCH A MANNER AS TO INDICATE THEIR COURSE TOGETHER WITH THE APPROXIMATE DEPTH AT WHICH THEY WERE INSTALLED. THE MARKING AND/OR LOCATING SHALL BE COORDINATED TO STAY APPROXIMATELY TWO WORKING DAYS AHEAD OF THE PLANNED CONSTRUCTION.

OHIO UTILITIES PROTECTION SERVICE: 1-800-362-2764 (CONTACT NON-MEMBERS DIRECTLY).

THE PRIMARY UTILITIES WITHIN THE CITY OF CANTON AREA-

NATURAL GAS
DOMINION EAST OHIO GAS
DISTRIBUTION & TRANSMISSION
320 SPRINGSIDE DRIVE
AKRON, OHIO 44333
330-664-2409
ATTN. MARY LONG
EMERGENCY NO.
1-800-521-4400

COMMUNICATIONS CABLE TIME WARNER CABLE 5520 WHIPPLE AVE N.W. NORTH CANTON, OHIC 44720 330-494-9200, EXT. 87 ATTN: TIM KNIGHT

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ODOT DISTRICT 4 2088 SOUTH ARLINGTON ROAD AKRON, OHIO 44306 800-603-1054 ATTN: KEN GREENE TELEPHONE
AT&T
SO WEST BOWER STREET
AKRON, OHIO 44308
330-384-8057
ATTN: JIM BUETEL
EMERGENCY NO. - 24 HRS
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CANTON_TOWNSHIP
ROAD SUPERINTENDANT
4711 CENTRAL AVE S E
CANTON, OHIO 44707
330-484-2501
ATTN: TOM HEWITT

THE CITY ENGINEER'S OFFICE IS TO BE CONTACTED DIRECTLY FOR SANITARY SENER, STORM SEWER AND TRAFFIC INTERCONNECT FACILITIES LOCATION 330-489-3381.

(G) PROPOSED PUBLIC UTILITY LOCATION A PROPOSED SIND VISIONS;

THE CONTRACTOR AND REPRESENTATIVES OF THE CITY OF CANTON SHALL MEET WITH REPRESENTATIVES OF THE VARIOUS PUBLIC UTILITY COMPANIES (EAST OHIO GAS, AMERICAN ELECTRIC POWER, ATAT, WARNER CARLE, ETC.) TO DETERMINE THE APPROPRIATE LOCATION FOR THESE UTILITIES WITHIN THE PROJECT SIFE. ONCE AN AGREEMENT HAS BEEN REACHED, IT SHALL BE THE PESPONSIBILITY OF THE UTILITY OWNERS TO INSPECT THE INSTALLATION OF THE VARIOUS PUBLIC UTILITY CONFLICTS APE AVOIDED AND ADEQUATE CLEARANCE AND OFFSETS WITH CYAFF UTILITIES ARE MAINTAINED. UTILITY COMPANIES SHALL SUBVIT PLANS INDICATING THEIR PROPOSED IMPROVEMENTS AND FACILITIES TO THE CITY OF CANTON FOR APPROVAL. THE SITE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE INSTALLATION OF THE OTHER UTILITIES NOT OWNED BY THE CITY.

(H) EXPLORATORY BORINGS

EXPLORATORY SOIL BORING INFORMATION IS NOT THE RESPONSIBILITY OF THE CITY OF CANTON. IT IS THE CONTRACTOR RESPONSIBILITY TO REVIEW ANY AND ALL INFORMATION AVAILABLE. IF CONTRACTOR REQUESTS TO DRILL AND OR EXCAVATE WITHIN THE CITY'S R/W, THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AT LEAST 3 WORKING DAYS PRIOR TO THIS WORK. THE CONTRACTOR SHALL BE PESFONSIBLE FOR ALL UTILITY NOTIFICATION, AS SPECIFIED, ALL TRAFFIC CONTROL, PREMIUM BACKFILL, COMPACTION AND RESTORATION, AS NECESSARY.

() CONTINGENCY QUANTITIES

WHEN SPECIFIED ON PLANS OR SPECIFICATIONS, CONTINGENCY OUANITIES ARE TO BE PERFORMED ONLY UNDER DIRECTION OF THE CITY ENGINEER. THE CONTRACTOR SHALL NOT ORDER ANY CONTINGENCY MATERIAL OR PERFORM ANY WORK UNTIL DIRECTED BY THE ENGINEER. THE ACTUAL WORK LOCATION AND QUANTITIES FOR SUCH ITEMS SHALL BE DOCUMENTED BY THE CONTRACTOR AND THE ENGINEER

II. CONSTRUCTION INCIDENTALS

(A) PLAN DISCREPANCIES.

ANY DISCREPANCIES FROM THE PLAN INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER SO THAT THE APPROPRIATE ADJUSTMENTS IN ALIGNMENT AND/OR GRADE MAY BE MADE PRIOR TO THE START OF CONSTRUCTION OR THE CONTINUATION OF THE ABOVE.

FAILURE BY THE CONTRACTOR TO VERIFY AND/OR DETERMINE EXISTING INFORMATION AS INDICATED WILL RESULT IN THE CONTRACTOR BEING RESPONSIBLE FOR ANY CHANGES NECESSARY TO COMPLETE THE WORK SPECIFIED WITHOUT ADDITIONAL COMPENSATION.

(B) VERIFICATION OF UNDERGROUND UTILITIES

THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE EXISTENCE AS WELL AS THE ACTUAL LOCATION, ALIGNMENT, AND ELEVATIONS OF ALL EXISTING UTILITIES/FACULTIES WITHIN AND/OR ADJACENT TO THE GENERAL LIMITS OF THESE IMPROVEMENTS INCLUDING WATERLINES, SANITARY AND STORM SEWERS, GAS LINES, COMMUNICATION LINES/BANKS, ELECTRIC LINES, ETC. THIS MAY REQUIRE EXPLORATIONY EXCAVATIONS TO BE FERFORMED BY THE CONTRACTOR FOR WHICH HE WILL NOT BE REIMBURSED. THE CONTRACTOR SHALL NOT ASSUME THAT EXISTING UTILITIES/CONDUITE WERE INSTALLED AT TYPICAL/STANDARD DEPTHS OR AT UNIFORM SLOPES/GRADES/DEPTHS BETWEEN ACCESS POINTS (CATCH BASINS, MANHOLES, JUNCTION CHAMBERS, ETC.)

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEVER OR UNDERGEPOUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO INSTALL THE PROPOSED CONDUIT

(C) PROTECTION OF UTILITIES

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT AND SUPPORT EXISTING UTILITIES ENCOUNTERED DURING THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS AS APPROVED BY THE DWNERS OF THE UTILITY AND THE CITY ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE TO CLOSELY COOPDINATE THEIR WORK WITH ALL UTLIFFY COMPANIES, ANY POTENTIAL DELAYS WILL NOT BE THE RESPONSIBILITY OF THE CITY

THE CONTRACTOR SHOULD EXPECT AT A MINIMUM ONE SANITARY SEWER LATERAL. ONE ROOF DRAIN, ONE WATER SERVICE, AND ONE GAS SERVICE FOR EACH LOT. ANY OF THE ABOVE UTILITIES DAMAGED DUE TO THE CONTRACTOR'S WORK SHALL BE RESTORED TO THE UTILITY OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE

(D) MAINTENANCE OF UTILITY SERVICES

THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN UTILITY SERVICES AT ALL TIMES

WATER SERVICE MAY BE INTERRUPTED FOR LIMITED PERIODS (4 HOURS MAXIMUM) DURING CONNECTION BETWEEN EXISTING WATER LINES AND RELOCATED/NEW WATER MAINS WHICH CANNOT BE COMPLETED OTHERWISE. NO SHUT DOWN SHALL OCCUR WITHOUT WRITTEN PERMISSION OF THE CITY OF CANTON WATER DEPARTMENT. PROPERTY OWNERS AFFECTED BY APPROVED INTERRUPTED SERVICE SHALL BE NOTIFIED 48 HOURS IN ADVANCE BY THE CONTRACTOR

STORM SEWER AND SANITARY SEWER SERVICES SHALL BE MAINTAINED WITHOUT INTERRUPTION, UNLESS APPROVED BY THE CITY ENGINEER.

IN THE EVENT THAT CONSTRUCTION DISRUPTS THE FLOW OF A SANITARY SEWER, THE CONTRACTOR SHALL IMMEDIATELY RECTIFY THE DISRUPTED SEWER BY EITHER TEMPORARILY FLUMING WITH MATERIALS ACCEPTABLE TO THE ENGINEER OR BYPASSING WITH PUMPS. COST OF MAINTAINING AND REPAIR OF SANITARY SEWERS DISTURBED BY CONSTRUCTION SHALL BE AT THE CONTRACTOR'S EXPENSE

(E. CONSTRUCTION NOISE

CONSTRUCTION NOISE ASSOCIATED WITH ANY IMPROVEMENT PROJECT, SHALL BE LIMITED TO LEVELS COMMENSURABLE WITH ADJOINING LAND AND THEIR ASSOCIATED USAGE AS DETERMINED BY THE CITY ENGINEER. IN OPOER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, ANY POWER-OPERATED CONSTRUCTION—TYPE DEVICE SHALL NOT BE OPERATED BETWEEN THE HOURS OF 7.00 PM. AND 7.00 AM, UNLESS AUTHORIZED BY THE CITY ENGINEER.

(F) OPEN TRENCH CONSTRUCTION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION /TRENCHING PRACTICES FOR THE PROPOSED IMPROVEMENT, OR AS FURTHER SHOWN ON THE PLANS AND SPECIFICATIONS

THE CONTRACTOR SHALL FOLLOW ALL LOCAL AND STATE REGULATION, INCLUDING FEDERAL REGULATION, PART 1926, SUB-PART P FOR ALL APPLICABLE REQUIREMENTS AND RESPONSIBILITIES.

PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR
SHALL NOTIFY THE CITY ENGINEER OF THE PROJECT'S ASSIGNED
"COMPETENT PERSON" IN OSHA EXCAVATION STANDARDS.

(G) TRENCH CLOSING AND TEMPORARY TOPPING

THE CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE THE NECESSARY LEVELS OF PROTECTION AND SAFEGUARDING OF ALL OPEN TRENCHES, WHEN WORK IS EITHER COMPLETED AT THE END OF THE DAY OR SUSPENCED FOR ANY OTHER REASON.

AS A MINIMUM, THE CITY REQUIRES ALL TRENCHES TO BE TOPPED WITH 4" OF ODOT 304 LIMESTONE FOR TRENCHES WITHIN EXISTING ROADWAY PAVEMENTS WHEN THE ROADWAY WILL BE OPENED TO VEHICULAR TRAFFIC PRIOR TO PAVEMENT REPLACEMENT.

THE TRENCH TOPPING MATERIAL SHALL BE ROLLED OR OTHERWISE COMPLETED AND BE FURNISHED FLUSH WITH THE EXISTING ADJOINING PAVEMENT.

(H) DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER AND CALCIUM CHLORIDE FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. SUFFICIENT QUANTITIES OF CALCIUM CHLORIDE SHALL BE STORED ON THE JOB SITE AT ALL TIMES TO BE USED FOR DUST CONTROL

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GP 1137—WAYNESBURG DRIVE SE
SANITARY SEWER REHABILITATION
FOR THE CITY OF CANTON
ED IN THE CITY OF CANTON TOWNSHIP.
SECTION 14 NW, STARK COUNTY, OHIO

2

CONSTRUCTION INCIDENTALS (continued)

() TESTING OF UTILITIES.

ALL NEWLY CONSTRUCTED WATERLINES AND SANITARY SEWERS (INCLUDING LATERALS) MUST BE INSTALLED AND TESTED IN ACCORDANCE WITH APPLICABLE STANDARDS (AWWA, ETC.), P THE CHIO ENVIRONMENTAL PROTECTION AGENCY AND PER THE REQUIREMENTS OF THE CITY OF CANTON CITY AND WATER ENGINEERING DEPARTMENT

(J. PRESERVATION OF EXISTING STRUCTURES

THE CONTRACTOR SHALL PERFORM WORK SO AS TO NOT DISTURB, DAMAGE OR DESTROY ANY MAILBOX, PAPER BOX, TELEPHONE OR POWER POLES, SIGNS, FENCES, RETAINING WALLS, LANDSCAPING ITEMS, ETC. ANY ITEM DAMAGED SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ANY ITEM DISTURBED OR IN CONFLICT WITH THE WORK TO BE PERFORMED SHALL BE REMOVED AND RESET AT THE CONTRACTOR'S EXPENSE UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIFICATIONS.

(K) SALVAGED CASTINGS.

WHEN DIRECTED BY THE CITY ENGINEER, ALL CASTINGS SHALL BE CAREFULLY REMOVED AND STORED ON SITE OR DELIVERED TO A LOCATION DESIGNATED BY THE CITY ENGINEER

(E) PLUG EXISTING CONDUCT

THIS ITEM SHALL CONSIST OF THE CONSTRUCTION OF BULKHEADS IN AN EXISTING CONDUIT TO BE ABANDONED.

BULKHEADS SHALL CONSIST OF BRICK AND/OR CONCRETE MASONRY WITH A MINIMUM THICKNESS OF 12 INCHES.

PAYMENT FOR PLUGGING OF EXISTING CONDUIT FOR ABANDONMENT SHALL BE INCLUDED IN THE UNIT BID OF THE VARIOUS ITEMS OF THE PROJECT

W) CONSTRUCTION LAYOU.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION LAYOUT UTILIZING PERTINENT PLAN DATA. THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR STAKING HORIZONTAL OR VERTICAL CONTROL CONSTRUCTION LAYOUT SHALL BE IN ACCORDANCE WITH ODOT 623 CONSTRUCTION

AT THE CITY ENGINEER'S REQUEST THE CONTRACTOR SHALL MAKE AVAILABLE ALL SURVEY FIELD NOTES FOR REVIEW

(A) EXISTING MONUMENTATION

THE CONTRACTOR SHALL PRESERVE ALL CORNERSTONES, IRON PINS, CONCRETE MONUMENTS AND/OR ANY TYPE OF LAND MONUMENT (HE SHALL HAVE ALL MONUMENTS IN THE PROXIMITY OF THE WORK REFERENCED.) THE CONTRACTOR SHALL REPLACE/RESET ANY DISTURBED OR DAWAGED MONUMENTS AND SHALL FURNISH A CERTIFICATION BY A REGISTERED SURVEYOR THAT THE MONUMENTS HAVE BEEN

(O) ELEVATION DATUM

. ____

ALL ELEVATIONS AREA BASED ON THE NAVD 1988 DATUM.

(P) DEWATERING OPERATIONS:

WHEN DEEMED NECESSARY, THE CONTRACTOR MAY INSTALL DEWATERING EQUIPMENT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION

THE PROPOSED LOCATION OF WELL POINTS, HEADER PIPE, ELECTRICAL DISTRIBUTION, GENERATORS AND DISCHARGE PIPES, ETC. SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS FOR THE INSTALLATION AND SUBSEQUENT REMOVAL OF DEWATERING EQUIPMENT AS MAY BE NECESSARY PER STATE AND LOCAL GOVERNING AGENCIES.

INSTALLATION OF ALL ELECTRICAL EQUIPMENT, INCLUDING GROUNDING AND PROTECTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR

CONTRACTOR SHALL PROVIDE ALL COMBUSTIBLE ENGINE DRIVEN CENERATORS WITH "HOSPITAL GRADE" MUFFLERS, MUFFLERS
SHALL BE RATED. AT A MAXIMUM OF 67 dB AT 23 FEET AWAY RUNNING FULL LOAD

(Q) INSPECTION

ALL WORK REQUIRED FOR THIS IMPROVEMENT SHALL BE SUBJECT TO INSPECTION BY THE CITY OF CANTON OR THEIR DESIGNATED REPRESENTATIVE THE CONTRACTOR SHALL GIVE A 48 HOUR NOTICE BEFORE STARTING ANY WORK ON THIS PROJECT AND SHALL KEEP THE CITY INFORMED OF HIS/HER CONSTRUCTION SCHEDULE. NO WORK SHALL BE PERFORMED UNLESS AN AUTHORIZED INSPECTOR IS PRESENT.

(R) FIELD OFFICE: (NOT REQUIPED)

THE CONTRACTOR SHALL PROVIDE A FIELD OFFICE IN ACCORDANCE WITH ODOT 619 THE FIELD OFFICE SHALL BE TYPE 'A', UNLESS OTHERWISE SPECIFIED

III. EARTHWORK / SITE WORK

(A) EASEMENTS AND RIGHT-OF WAY

THE CONTRACTOR SHALL STAY WITHIN THE PROPERTIES. EASEMENTS, AND/OR RIGHT-OF-WAY PROVIDED AT ALL TIMES. NO MATERIAL SHALL BE STORED NOR ANY WORK PERFORMED ON PRIVATE PROPERTY DISTURBANCE OF EXISTING FEATURES AND/OR IMPROVEMENTS SHALL BE KEPT TO AN ABSOLUTE MINIMUM AND AS APPROVED BY THE CITY ENGINEER/PROPERTY

(B) SUITABILITY OF SITE:

THE CITY OF CANTON WILL NOT BE RESPONSIBLE FOR THE TYPE AND/OR SUITABILITY OF THE MATERIAL UNDERLYING THE PROJECT SITE. THE CONTRACTOR MUST APPRAISE THEMSELVES OF ANY EXISTING SITE CONDITIONS WHICH MAY AFFECT THEIR BID OR THE PERFORMANCE OF THE REQUIRED WORK, THE CONTRACTOR SHALL PERFORM ANY INVESTIGATIONS AND/OR TESTING NECESSARY TO ADEQUATELY DETERMINE/ESTIMATE TO THEIR SATISFACTION OF ALL SITE CONDITIONS WHICH COULD AFFECT THE PERFORMANCE OF THE PROPOSED IMPROVEMENTS, THIS COULD INCLUDE BUT NOT BE LIMITED TO UNSUITABLE AND/OR UNSTABLE SOIL/SUBSURFACE CONDITIONS, ROCK, WATER (PERCHED OR FREE), SPRINGS, ETC.

(C) REMOVAL/REPLACEMENT OF UNSUITABLE MATERIAL.

THE CONTRACTOR SHALL UNDERCUT AND REPLACE UNSUITABLE MATERIAL ENCOUNTERED DURING INSTALLATION OF THE PROPOSED UTILITIES AND ROADWAY IN ACCORDANCE WITH O D.O T. ITEM No. 603 AND 203, OR AS FURTHER DESCRIBED

IF PLANS ALLOW FOR A CONTINGENCY ITEM FOR SUCH REMOVAL/REPLACEMENT, THE CITY WILL DOCUMENT THE LOCATION OF AREAS OF SUCH REMOVAL/REPLACEMENT FOR

D) RESTORATION OF DISTURBED AREAS

EXISTING DRIVES, BERMS, LAWNS, PAVEMENTS, CURBS, SIDEWALKS, SIGNS, MAILBOXES OR OTHER APPURTENANCES DISTURBED DURING CONSTRUCTION BUT NOT SPECIFICALLY DESIGNATED FOR REMOVAL/REPLACEMENT SHALL BE RESTORED TO A CONDITION EQUAL TO THAT WHICH EXISTED PRIOR TO CONSTRUCTION AND TO THE COMPLETE SATISFACTION OF THE CITY ENGINEER. RESTORATION OF EXISTING ROADWAYS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE SITY TOWNSHIP, COUNTY, AND/OR OTHER AGENCIES HAVING AUTHORITY. COST FOR THE RESTORATION OF THESE ITEMS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR, NO PUBLIC ROADWAY SHALL BE DISTURBED WITHOUT PRIOR WRITTEN APPROVAL FROM THE GOVERNING AGENCY AND ACQUISITION OF NECESSARY

ROADWAY / PAVEMENT / WALK / CURB

PAVEMENTS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CITY STANDARD DRAWINGS AND APPLICABLE ODOT SPECIFICATIONS, UNLESS SPECIFIED OTHERWISE ON THE PLANS.

(A) AGGREGATE BASE, AS FER PLAN

THE REQUIREMENTS OF ODOT 304 SHALL APPLY; DEVIATIONS FROM THIS ARE AS FOLLOWS;

- NO OPEN HEARTH BASIC-OXYGEN STEEL OR GRANULAR SLAG SHALL BE PERMITTED.
- (B) CONCRETE WALK AND DRIVE APPROACHES AS PER PLAN-

THE REQUIREMENTS OF ODOT 508 CONCRETE WALKS AND RAMPS SHALL APPLY: DEVIATIONS FROM THIS ARE AS FOLLOWS:

- CONCRETE MIX COARSE AGGREGATE SHALL BE LIMESTONE
- EXPANSIONS JOINTS (1/2") SHALL BE PLACED AT THE TRANSVERSE JOINTS OF THE WALK AT INTERVALS NOT TO EXCEED 30 FEET IN LENGTH.
- 3. COLD WEATHER PRACTICES SHALL BE SUBMITTED BY THE CONTRACTOR TO THE CITY ENGINEER FOR APPROVAL.
 CONTRACTOR SHALL PLACE AND PROTECT ALL CONCRETE IN ACCORDANCE WITH LATEST EDITION OF ACI 306

(C) CAST IN PLACE CONCRETE CURB, AS PER PLAN

REQUIREMENTS OF ODOT 609 SHALL APPLY, DEVIATIONS FROM

- 1. CONCRETE MIX COARSE AGGREGATE SHALL BE LIMESTONE
- 2 CONSTRUCTION JOINTS FOR STAND-UP CURB AND COMBINATION CURB/GUTTER SHALL BE DOWELED DOWELS SHALL BE (2) #5 BAR, 18" IN LENGTH EQUALLY SPACED.
- COLD WEATHER PRACTICES SHALL BE SUBMITTED BY THE CONTRACTOR TO THE CITY ENGINEER FOR APPROVAL.
 CONTRACTOR SHALL PLACE AND PROTECT ALL CONCRETE I N ACCORDANCE WITH LATEST EDITION OF ACI 306
- CURB SHALL BE CORED OR SLEEVED 3-1/2" FOR 3" DRAIN OUTLETS AT THE LOCATIONS DETERMINED BY CITY ENGINEER OR DEVELOPER, OR AS SPECIFIED ON PLAN NOTCH CUTTING OF CURB IS PROHIBITED

(D) DROP CURB AT DRIVEWAYS

THE CONTRACTOR SHALL PROVIDE DROP CURB FOR ALL PROPOSED DRIVEWAYS AT THE TIME THE CONCRETE CURB IS FOURED DROP CURBS SHALL CONFORM TO CITY STANDARD

WHEN THE LOCATIONS OF DRIVES ARE NOT KNOWN AT THE TIME OF CURB CONSTRUCTION, THE DROPS MAY BE SAW CUT WITH THE CITY ENGINEER'S APPROVAL

(E) WHEELCHAIR RAMPS:

WHEELCHAIR RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ODOT STANDARD CONSTRUCTION DRAWING BP-7.1 "CURB RAMPS WITH TRUNCATED DOMES" AND USE OF WHITACRE GREER ADA PAVER, CLEAR RED (RUSTIC) #30

F) RESTRICTED WORK SCHEDULE.

NO CONCRETE FINISH WORK OR PERMANENT ASPHALT SHALL BE PLACED FROM NOVEMBER 15TH TO APRIL 15TH UNLESS WPITTEN APPROVAL IS GRANTED BY THE CITY ENGINEER

(G) ASPHALT/CONCRETE

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER 48 HOURS IN ADVANCE OF BEGINNING WORK WHICH REQUIRES COMPACTION TESTING AND/OR PRE-POUR INSPECTION PRIOR TO PLACEMENT OF ASPHALT OR CONCRETE. WORK WILL NOT PROCEED UNTIL TESTING AND/OR INSPECTION HAS BEEN COMPLETED AND APPROVED BY THE CITY

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GENERAL NOTES
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SANITARY SEWER REHABILITATION
FOR: HE CITY OF CANTON
ED IN THE CITY OF CANTON/CANTON TOWN
SECTION 14 NW, STARK COUNTY, OHIO 0 %

 $\left(\frac{3}{10}\right)$

ALL SANITARY/STORM SEWER CONDUITS AND APPURTENANCES SHALL BE CONSTRUCTED ACCORDING TO CITY SPECIFICATIONS AND ODOT 603 SPECIFICATION EFFECTIVE AT THE TIME OF CONSTRUCTION.

AY BECOING

BEDDING SHALL BE AASHTO M 43, NUMBERS 56, 57, OR 67 LIMESTONE OR ANGULAR CRUSHID GRAVEL STONE. BEDDING SHALL EXTEND THE FULL WIDTH OF THE TRENCH TRENCH WIDTH SHALL BE THE OUTSIDE DIAMETER OF PIPE PLUS 12" ON BOTH SIDES OF THE PIPE. FOR REINFORCED CONCRETE PIPE CONQUIT THE BEDDING SHALL EXTEND 3" BELOW THE BOTTOM OF PIPE AND FLUSH WITH THE TOP OF PIPE. FOR ALL OTHER SEWER CONDUITS THE BEDDING SHALL EXTEND 6" BELOW THE BOTTOM OF PIPE AND 12" ABOVE THE PIPE

BEDDING CLASSES A, B, C., OR CRUSHED GRAVEL STONE AS DESCRIBED IN ASTM C12 SHALL BE USED AND CAREFULLY COMPACTED FOR ALL RIGID PIPE.

EMBEDMENT MATERIALS FOR BEDDING, HAUNCHING AND INITIAL BACKFILL, CLASS I, II, OR III, AS DESCRIBED IN ASTM D2321, SHALL BE USED AND CAREFULLY COMPACTED FOR ALL FLEXIBLE

'B) BACKELL WITH V THE RIGHT-OF-WAY

BACKFILL MATERIAL SHALL BE IN ACCORDANCE WITH ODOT 703 LT. TYPE '1' GRANULAR MATERIAL (304, 411, or 617 AGGREGATE GRADATION). DEVIATIONS FROM THIS ARE AS

- NO FOUNDRY SAND, AIR COOLED BLAST FURNACE SLAG, GRANULATED SLAG, OR OPEN HEARTH SLAG SHALL BE PERMITTED
- ANY EXCEPTION TO THE TYPE '1' GRANULAR MATERIAL SHALL BE WITH THE SUPPLEMENTAL APPROVAL OF THE CITY ENGINEER FOR SUCH SUPPLEMENTAL APPROVAL T CONTRACTOR SHALL SUBMIT IN WRITING THE FOLLOWING:
 - a) SOURCE OF THE ALTERNATE BACKFILL MATERIAL
 - b) GRADATION REPORT IN ACCOPDANCE WITH AASHTO T HI AND T 27.
 - c.) PROGTOR CURVE ANALYSIS IN ACCORDANCE WITH ASTM D 698
 - d.) PROPOSED COMPACTION METHOD.

THE CITY RESERVES THE RIGHT TO REFUSE ANY ALTERNATE BACKFILL MATERIAL THE CITY FINDS NOT CONSISTENT WITH THE MATERIAL PREVIOUSLY APPROVED BY THE CITY ENGINEER.

BACKFILL METHODS SHALL BE IN ACCORDANCE WITH ODOT 603, DEVIATION FROM THIS ARE AS FOLLOWS

1 CONTRACTOR MAY REQUEST TO EXCEED 8" PLACEMENT LIFTS DURING BACKFILL PROCEDURE GREATER LIFT SIZE IS SUBJECT TO THE CITY ENGINEER'S APPROVAL BASED ON THE CONTRACTOR'S PROPOSED COMPACTION METHOD AND THE BACKFILL MATERIAL.

(C) BACKFILL OUTSIDE THE RIGHT-OF-WAY

BACKFILL MATERIAL AND COMPACTION SHALL BE IN ACCORDANCE WITH DETAIL ON SHEET 6 OF THE PLANS RESTORATION OF THE STREAM BED, SUBSTRATES, SLOPES AND BANKS SHALL FOLLOW NOTE ON SHEET 10.

(D) MANHOLLS

PRECAST CONCRETE MANHOLES SHALL BE IN ACCORDANCE WITH ODOT 604 AND ODOT STANDARD CONSTRUCTION DRAWING MH-3 (NOTE: THIS INCLUDES ALL REQUIREMENTS OF ASTM C-478, PER ODOT 706.13). DEVIATIONS FROM THIS ARE AS FOLLOWS:

- ALL MANHOLE SECTIONS SHALL HAVE 6 ±2 PERCENT AIR IN THE HARDENED CONCRETE
- PRECAST BASE SHALL HAVE EXTENDED BASE OF 6" AROUND OUTSIDE CIRCUMFERENCE OF MANHOLE.
- GRADE RINGS SHALL BE SET IN MORTAR AND SHALL NOT EXCEED 12"
- GRADE RINGS, IF BRICK, SHALL BE BELDEN BRICK CO. (FINE GRIND) OR EQUAL AND MEET ASTM 032-90.
- MORTAR TO BE AIR ENTRAINED, HIGH STRENGTH QUALITY UNLESS OTHERWISE SPECIFIED
- UNIONS IN RISER SECTIONS SHALL USE RUBBER GASKETS PER ASTM C-443.

(D) MANHOLES (CONTINUED)

BRICK MANHOLES (STORM SEWER ONLY) SHALL BE IN ACCORDANCE WITH ODOT 604 AND ODOT STANDARD CONSTRUCTION DRAWING MH-1 DEVIATIONS FROM THIS ARE AS FOLLOWS:

- CONCRETE BRICK AND CONCRETE MASONRY BLOCK ARE PROHIBITED FROM THE MATERIAL SECTION.
- 2 BRICK SHALL BE MANUFACTURED BY BELDEN BRICK (FINE GRIND) OR EQUAL, BRICK SHALL WEET ASTM 032-93.
- 3. MORTAR TO BE AIR ENTRAINED, HIGH STRENGTH QUALITY

MANHOLE BASE SHALL BE PLACED ON A MINIMUM OF 6" OF #57 STONE BEDDING.

ALL EXCAVATED AREAS SHALL BE BACKFILLED WITH ODOT 703.11, TYPE '1' GRANULAR MATERIAL. BACKFILL METHODS IN ACCORDANCE WITH ODOT 503 081.

CASTINGS AS PER CITY STANDARD DRAWING # 19.

DISTANCE BETWEEN TOP OF MANHOLE CASTING AND THE TOP STEP SHALL NOT EXCEED 30".

MANHOLE STEPS SHALL BE POLYPROPYLENE IN ACCORDANCE

CHANNELS SHALL BE CONSTRUCTED WITH CLASS 'C' CONCRETE WITH A FINISHED SMOOTH SURFACE MAINTAINING POSITIVE FLOW FROM INLET TO OUTLET.

WHEN SPECIFIED ON THE PLANS, DROP PIPES SHALL BE CONSTRUCTED FOR SANITARY CONDUITS WHICH CANNOT BE CONNECTED TO THE MANHOLE WITHIN 24 INCHES FLOW LINE TO FLOW LINE, DROP PIPES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CITY STANDARD DRAWING NO. 18 OR AS SHOWN ON THE PLANS.

(E) CATCH BASIN

CATCH BASINS SHALL BE IN ACCORDANCE WITH ODOT 604, APPLICABLE ODOT CATCH BASIN STANDARD CONSTRUCTION DRAWINGS, AND APPLICABLE CITY CATCH BASIM STANDARD DRAWINGS AS PER PLAN DEVIATIONS FROM ODOT SPECIFICATIONS ARE AS FOLLOWS:

- CONCRETE BRICK/BLOCK IS PROHIBITED FROM THE MATERIAL SELECTION
- 2 BRICK SHALL BE MANUFACTURED BY BELDEN BRICK (FINE GRIND) OR EQUAL. BRICK SHALL MEET ASTM C32-93 GRADÉNESS.
- 3 MORTAR TO BE AIR ENTRAINED, HIGH STRENGTH QUALITY UNLESS OTHERWISE SPECIFIED

BRICK CATCH BASINS SHALL INCLUDE.

- 1. ALL INSIDE JOINTS TO BE STRUCK AND CLOSED.
- (ONE) 4" DIAMETER INLET PIPE SITUATED AWAY FROM THE ROAD SIDE OF THE BASIN.
- 3 PLASTER OUTSIDE WALLS WITH HIGH STRENGTH MORTAR, 1/2" THICK

ALL CATCH BASINS SHALL BE PLACED ON 6" OF #57 STONE

ALL EXCAVATED AREAS SHALL BE BACKFILLED WITH ODOT 703.11, TYPE '1' GRANULAR MATERIAL. BACKFILL METHODS IN ACCORDANCE WITH ODOT 603.081

ALL KNOCKOUTS FOR INLETS AND OUTLETS PIPING SHALL BE FASHIONED NEATLY, ALL ANNULAR SPACE TO BE FILLED WITH APPROVED BRICK AND MORTAR

CHANNELS SHALL BE CONSTRUCTED WITH CLASS 'C' CONCRETE WITH A FINISHED SMOOTH SURFACE MAINTAINING POSITIVE FLOW FROM INLET TO OUTLET.

THE UNIT PRICE FOR THE SEWER REPLACEMENT ITEMS IN THE BID SHALL INCLUDE CLOSED CIRCUIT TELEVISION OF THE EMNITARY SEWER AFTER THE REPLACEMENT OF THE SEWER TO DESERVE THE CONNECTION TO THE EXISTING CANITRRY SEWER, UPCTREAM AND DOWNSTREAM OF THE REPLACEMENT PIPE

(F) UNDERDRAINS

UNDERDRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ODOT 605 UNDERDRAINS: DEVIATIONS FROM THIS ARE AS

NO AIR-COOLED BLAST FURNACE SLAG SHALL BE PERMITTED

(G) ROOF DRAINS.

THE CONTRACTOR SHALL INSTALL TWO ROOF DRAINS PER LOT UNLESS OTHERWISE SPECIFIED ON THE PLANS OR DIRECTED BY THE CITY ENGINEER

THE ROOF DRAINS OUTLETS SHALL BE CORED OR SLEEVED THROUGH THE CURB. OPENING DIAMETER NO GREATER THAN 3-1/2" AND BOTTOM OF OPENING AT 1" ABOVE GUTTER.

THE CONTRACTOR SHALL INSTALL 3" PVC. SCHEDULE 40. CONDUIT FROM THE FACE OF THE CURB TO A POINT 1' BEYOND THE BACK OF WALK OR AT THE RIGHT-OF- WAY LINE, VHICHEVER IS GREATER

CONTRACTOR SHALL PLACE A CONTROL JOINT IN THE SIDEWALK OVER THE ROOF DRAIN WHEN CONDUIT IS IN THE CONCRETE

CONNECTIONS TO EXISTING ROOF DRAINS SHALL BE MADE WITH NEOPRENE COUPLERS (ie FERNCO) AND STAINLESS STEEL

(H) SUMP PUMP DISCHARGE CONDUIT

IF SUMP PUMP DISCHARGE CONDUIT IS INSTALLED WITHIN THE CITY'S RIGHT-OF-WAY, THE PIPING SHALL BE CONNECTED TO A NEW OR EXISTING STORM SEWER CONDUIT, CATCH BASIN, OR MANHOLE. CONNECTIONS TO A CONDUIT OR MANHOLE MUST HAVE A RELIEF DISCHARGE THROUGH THE CURB (SEE NOTE "G" ROOF DRAINS, AND/OR VENT STACK TO THE GROUND SURFACE, AS DEEMED NECESSARY BY THE CITY ENGINEER ALL CONNECTIONS TO BE APPROVED BY THE CITY ENGINEER, ALL OTHER LOCATIONS OF DISCHARGE PIPING SHALL BE VERIFIED/APPROVED BY THE CITY'S BUILDING DEPARTMENT.

(I) SANITARY LATERAL CONNECTIONS

ALL CONNECTIONS TO THE MAIN SEWER SHALL BE INSTALLED WITH A MANUFACTURED WYE

THE MINIMUM SLOPE OF THE LATERALS SHALL BE 1/8" PER FT. (1%) AND THE MAXIMUM SHALL BE 1/4" PER FT. (2%) UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

ALL NEW SANITARY LATERALS SHALL EXTEND 10 LF BEYOND THE ROAD RIGHT-OF-WAY AND SHALL HAVE A MINIMUM/MAXIMUM OF 8' OF COVER AT THE RIGHT-OF-WAY, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

WHEN THE DEPTH OF THE MAIN WOULD CAUSE A LATERAL TO EXCEED A 2% RATE OF GRADE, A LATERAL CONNECTION STACK SHALL BE INSTALLED AT THE MAIN . SAID STACK SHALL CONFORM TO CITY STANDARD DRAWING NO. 28.

ALL END OF LATERAL RUNS SHALL BE CAPPED W/SUITABLE AIR TIGHT PLUG AND MARKED UP TO 2' MINIMUM ABOVE GRADE WITH SUITABLE POSTS

CONTRACTOR SHALL SUBMIT THE FOLLOWING DOCUMENTATION TO THE CITY ENGINEER FOR ALL LATERAL CONNECTIONS

- 1. DISTANCE OF WYE FROM THE DOWNSTREAM MANHOLE.
- DISTANCE ALONG THE SEWER MAIN FROM THE DOWNSTREAM MANHOLE TO THE LATERAL CONNECTION END
- PERPENDICULAR DISTANCE FROM SEWER MAIN TO LATERAL CONNECTION END
- DEPTH OF LATERAL CONNECTION END. FROM TOP OF PROPOSED/EXISTING CURB/ORIGINAL GROUND TO FLOW

Z THE COST TO CLOSED CIRCUIT TELEVISE THE EXISTING SEWER PRIOR TO C.I P.P. LONSTRUCTION AND EXISTING IS" DIAMETER SANITARY SEWER REMOVAL PRIDE TO REPLACEMENT WILL NOT BE A SEPARATE PAY ITEM. COSTS OF SAME SHALL BE INCIDENTAL TO THE COSTS OF THE NEW SEWELS , RESPECTIVELY.

(U) TESTING

SANITARY SEWERS SHALL BE TESTED BY CONTRACTOR IN ACCORDANCE WITH THE CITY OF CANTON'S SUPPLEMENTAL

02-00 TESTING FOR EXCESSIVE DEFLECTION FOR NON-PRESSURE THERMOPLASTIC SEWER PIPE.

NOTE: DEFLECTION RATE SHALL NOT EXCEED FIVE PERCENT (5%) AND SHALL BE TESTED IN ACCORDANCE WITH ASTM D-3034

03-00 TESTING PRACTICES FOR LOW-PRESSURE AIR TESTING OF INSTALLED, NON-PRESURE, THERMOPLASTIC SEWER

THE MAXIMUM ALLOWABLE TEST LEAKAGE SHALL BE 100 GALLONS/INCH OF DIAMETER/MILE/DAY

04-01 STANDARD TEST METHOD FOR CONCRETE SEWER MANHOLES BY THE NEGATIVE AIR PRESSURE TEST.

MANHOLES SHALL BE TESTED IN ACCORDANCE WITH ASTM C-1244.

SANITARY AND STORM SEWERS CONSTRUCTED WITH THIS PROJECT SHALL BE TELEVISED (POST CONSTRUCTION) BY THE CONTRACTOR IN ACCORDANCE WITH CITY OF CANTON'S SUPPLEMENTAL SPECIFICATION:

05-01 CLOSED CIRCUIT TELEVISION (CCTV) INSPECTION AND DOCUMENTATION PROCEDURE

(K) PROHIBITED CONNECTIONS

ROOF DRAINS, FOUNDATION DRAINS AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED

(L) SANITARY SEWER PIPE

SANITARY SEWER PIPE SHALL BE POLYVINYL CHLORIDE SOLID WALL PIPE IN ACCORDANCE WITH ODOT 707.45 AND SHALL BE PVC-SDR 26. USE PROPERLY SIZED FERNCO COUPLING (STRONG BACK RC SERIES) TO CONNECT PROPOSED TO EXISTING SANITARY SEWER PIPE. THE PIPE WILL BE ENCASED IN CONCRETE (COOT CLASS C) PER DETAIL ON SHEET 6. A SEE NOTE ADDED BELDNI.

(M) SEWER REHABILITATION-CUPED IN PLACE PIPE

SEE SECTION 02957, SEWER LINING, IN TECHNICAL SPECIFICATIONS FOR DETAILS ON REQUIRED CURED-IN-PLACE-PIPE SEWER LINING

A SEE NOTE ADDED BELOW. VI. EROSION CONTROL:

(A) TEMPORARY SOIL EROSION AND SERVENT CONTROL

THE CONTRACTOR SHALL PREVENT AND/OR REDUCE AND CONTROL SOIL EPOSION RESULTING FROM THE PROPOSED IMPROVEMENTS THE USE OF S'LT FENCING, JUTE MATING, TEMPORARY SEEDING, SOD, SILT CHECKS, INLET PROTECTION AROUND ALL CATCH BASINS, AND STABILIZED CONSTRUCTION ENTRANCE(S) ETC. WILL BE REQUIRED SEDIMENT CONTROL STRUCTURES/DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUAL RAINWATER AND LAND DEVELOPMENT -OHIO'S STANDARDS FOR STORM WATER MANAGEMENT LAMP.
DEVELOPMENT AND URBAN STREAM PROJECTION, SECOND
EDITION DATED 1996, SEDIMENT CONTROL DEVICES MUST BE
INSTALLED PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUED INSPECTION AND MAINTENANCE OF ALL SEDMENT CONTROL DEVICES. THE CONTRACTOR SHALL FOLLOW THE REQUIREMENTS SET FORTH ON THE APPROVED STORM WATER POLLUTION PREVENTION PLAN IF APPLICABLE, OR ON THE DETAILED CONSTRUCTION PLANS

ADDITIONAL SOIL FROSION CONTROLS ARE INCLUDED ON SHT ID. (B) ROCK CHANNEL PROTECTION, AS PER PLAN-

ROCK CHANNEL PROTECTION, IF REQUIRED, SHALL MEET THE REQUIREMENTS OF ODOT ITEM 601 GEOTEXTILE FABRIC SHALL BE PLACED UNDER ALL ROCK CHANNEL PROTECTION AND SHALL MEET THE REQUIREMENTS OF ODOT ITEM 712.09 GEOTEXTILE FABRICS, TYPE 'B' (FILTER BLANKETS FOR ROCK CHANNEL PROTECTION) REFER TO DETAILED PLAN DPAWINGS FOR THE SPECIFIC LOCATION, TYPE, LENGTH, WIDTH AND THICKNESS OF THE ROCK CHANNEL PROTECTION

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VII. TRAFFIC:

(A) MAINTAINING TRAFFIC

THE CONTRACTOR SHALL MAINTAIN TRAFFIC ADJACENT TO AND THROUGH THE PROJECT AS DESCRIBED BELOW AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE CHIO DEPARTMENT OF TRANSPORTATION MANUAL OF CONSTRUCTION AND WATERIALS SPECIFICATIONS ITEM 614 MAINTAINING TRAFFIC THE CONTRACTOR SHALL FURNISH, MAINTAIN, AND REMOVE ALL SIGNS, FLAGS, FLAGMEN, WATCHMEN, EARRICADES, SIGN SUPPORTS, CONES, BARRELS, AND INCIDENTIALS IN SUPPORTS, COMES, BARRELS, AND INCIDENTALS IN CONFORMANCE WITH THE WOST RECENT REVISIONS OF THE CURRENT EDITION OF THE OHIO MANUAL OF UNIFORM, TRAFFIC CONTROL DEVICES FOR STREETS AND INCHWAYS, INTERFERENCE WITH VEHICULAR TRAFFIC SHALL BE KEPT TO A MINIMUM AT ALL TIMES, ALL OPEN TRENCHES AND EXCAVATIONS SHALL BE PROTECTED WITH DRUMS, BARRICAGES, OR BARRIERS ACCESS SHALL BE MAINTAINED AT ALL TIMES FOR EMERGENCY AND FIRE DEPARTMENT VEHICLES DEPARTMENT VEHICLES.

ANY TEMPORARY ROADWAY OLOSING MUST BE APPROVED IN WRITING BY THE CITY TRAFFIC ENGINEER AND ANY OTHER PUBLIC AGENCY HAVING JURISDICTION. THE CONTRACTOR SHALL NOTIFY THE TRAFFIC ENGINEER AT LEAST 72 HOURS IN ADVANCE OF ANY SUCH CLOSINGS FOR PUBLICATION AND EMERGENCY AGENCY

(B) RESIDENTIAL AND BUSINESS AREAST

THE CONTRACTOR SHALL MAINTAIN ACCESS TO LOCAL RESIDENCES AND BUSINESSES DURING CONSTRUCTION IN THE EVENT A DRIVE ACCESS NEEDS TO BE CLOSED, THE CONTRACTOR SHALL GIVE NOTICE OF CLOSURE AND DURATION IG THE PROPERTY OWNER 24 HOURS IN ADVANCE.
CONTRACTOR SHALL ARRANGE FOR ALTERNATE PARKING AND REASONABLE ACCESS FOR THOSE PROPERTY OWNERS AFFECTED

(C) EXISTING STREET NAME AND TRAFFIC CONTROL SIGNS

WHERE WORK REQUIRES THE MOVEMENT OF EXISTING SIGNS (STOP SIGNS, SPEED LIMIT SIGNS, NO PARKING SIGNS, ETC.).
THE CONTRACTOR IS REQUIRED TO MAINTAIN THE FUNCTION OF ALL TRAFFIC CONTROL SIGNS. ALL SIGNS REMOVED BY THE CONTRACTOR SHALL BE STORED ON SITE AND REINSTALLED BY THE CONTRACTOR.

(D) NEW STREET NAME & TRAFFIC CONTROL SIGNS

ALL STREET NAME AND TRAFFIC CONTROL SIGNS SHALL COME COMPLETE AND BE MADE IN ACCORDANCE WITH THE CITY OF CANTON SIGN AND PAINT DEPARTMENT SPECIFICATIONS. GENERALLY, ALL SIGNS SHALL HAVE HI-INTENSITY SHEETING AND BE MADE WITH 080 50/52 ALUMINUM STREET NAME SIGNS SHALL BE MADE WITH WHITE UPPER AND LOWER CASE LETTERING ON GREEN BACKGROUND USING 9" BLANKS, BE DOUBLED SIDED W/RADIUS CORNERS AND HAVE 6" NAME AND 3" SUFFIXES. ALL SIGN RELATED HARDWARE IS TO BE NCLUDED, SUCH AS E" HEAVY DUTY U-CHANNEL CAPS AND STREET NAME CROSSES.

FOR SUBDIVISION DEVELOPMENTS, ALL PERMANENT STREET NAME SIGNS AND TRAFFIC CONTROL SIGNS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

(E. EXISTING TPLEFIC SIGNALS

WHERE WORK REQUIRES INTERFERENCE WITH EXISTING SIGNALIZATION IN THE INTERSECTIONS, ALL WORK SHALL BE COORDINATED THROUGH THE CITY ENGINEER, THE CONTRACTOR SHALL NOT ALTER ANY SIGNALIZATION WITHOUT THE CITY ENGINEER'S AUTHORIZATION.

(F) YES TRAFF T SIGNALIZATION.

ALL NEW OR MODIFIED TRAFFIC SIGNALIZATION AT INTERSECTIONS SHALL BE IN ACCORDANCE WITH CITY TRAFFIC ENGINEERING TRAFFIC CONTROL GENERAL NOTES AND ODOT SPECIAL EMPHASIS ON ODOT ITEMS 625, 632, 633, 732 AND 733 WHICH DEALS WITH TRAFFIC CONTROL.

(G) TRAFFIC CONTECT PLAN

THE CONTRACTOR SHALL SUBMIT TO THE CITY ENGINEER A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH CITY SUPPLEMENTAL SPECIFICATION 01-00 DETOURS, IF NECESSARY, SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO PLAN SUBMISSION.

VIII, WATER MAIN / SERVICES:

(A) TATER MAINS/SERVICES

ALL WATER MAINS, SERVICES AND APPURTENANCES SHALL BE CONSTRUCTED ACCORDING TO THE CITY OF CANTON WATER
DEPARTMENT REQUIREMENTS AND SPECIFICATIONS IN EFFECT AT
THE TIME OF CONSTRUCTION. ANY DEVIATION FROM THE PLANS AFFECTING THE WATER SYSTEM MUST BE APPROVED BY THE CANTON WATER DEPARTMENT.

FOR NEW DEVELOPMENTS INSIDE THE CITY, ALL WATER MAIN PIPE MATERIAL FITTINGS, BENDS, VALVES, VALVE BOXES, MEGALUGS, GASKETS AND HYDRANTS WILL BE SUPPLIED BY THE CITY OF CANTON. THE CONTRACTOR WILL BE RESPONSIBLE CITY OF CANTON. THE CONTRACTOR WILL BE RESPONSIBLE FOR TRANSPORTING MATERIALS TO THE PROJECT SITE BACKFILL, BEDDING. THRUST BLOCKING, ETC. AND ASSOCIATED LABOR IS THE RESPONSIBILITY OF THE CONTRACTOR

WATER MAINS SHALL BE CLASS 53 (12" AND UNDER) OR CLASS 54 (OVER 12") DUCTILE IRON MEETING AWWA C-151 WITH PUSH JOINTS. THE MINIMUM COVER OVER WATER MAINS SHALL BE 4'-5" FROM GROUND SURFACE TO THE BARREL OF THE PIPE THE OUTSIDE SURFACE OF ALL DUCTILE IRON PIPE, FITTINGS, AND APPURTENANCES SHALL BE SHOP COATED WITH ETHER A COAL TAR OR ASPHALT BASE BITUMINOUS MATERIAL.

IF THE COATING MATERIAL IS FOUND TO BE DAMAGED PRIOR TO

THE PIPE TRENCH BEING BACKFILLED, THE CONTRACTOR SHALL

PROVIDE AN ADDITIONAL APPROVED MATERIAL AS REQUIRED TO REFAIR THE DAMAGES. THE CONTRACTOR SHALL HAVE SUFFICIENT COATING MATERIAL AVAILABLE AT THE JOB SITE PRIOR TO LAYING THE PIPE. THE INTERIOR OF ALL PIPES AND FITTINGS SHALL BE LINED WITH DOUBLE CEMENT MORTAR AND SEAL COATED IN COMPLETE CONFORMANCE WITH AWAYA C-104, OR THE LATEST PEVISION. FRINGS SHALL BE RATED FOR 250 PSI WORKING PRESSURE IN ACCORDANCE WITH AWAYA C-151. PIPE LENGTHS MAY BE DEFLECTED AT THE JOINT IF REQUIRED, AT ONE—HALF THE DEGREE RECOMMENDED BY THE MANUFACTURER. WATER SERVICES WILL BE INSTALLED BY THE CITY OF CANTON AND PAID FOR BY THE OWNER/DEVELOPER. DISINFECTION OF WATER MAINS SHALL BE IN ACCORDANCE WITH AWWA C-651. ALL WATER LINE PRESSURE TESTING SHALL CONFORM TO AWWA C-600.

WATER MAINS SHALL BE INSTALLED AND BACKFILLED PER O.D.O.T. ITEM 63B. WATERLINES LOCATED WITHIN THE LIMITS OF OR WITHIN A 1/2 TO 1 SLOPE OF EXISTING AND/OF PROPOSED ROADWAYS, PARKING AREAS, BUILDINGS, BUILDINGS. SIDEWALKS, AND/OR DRIVES SHALL BE INSTALLED AS TYPE B CONDUITS. ALL OTHER WATER MAINS MAY BE INSTALLED AS TYPE C CONDUITS. BEDDING SHALL BE AS SPECIFIED, EXCEPT THAT SLAG WILL NOT BE PERMITTED

ALL BENDS, FITTINGS, TEES, VALVES, DEAD ENDS, ETC SHALL BE SECURED EQUAL POURED-IN-PLACED CONCRETE THRUST BLOCKS SHALL ALSO BE PROVIDED AT/FOR EACH BEND, FITTINGS, TEE, DEAD END, ETC. THIS BLOCKING SHALL BE CAREFULLY PLACED TO ENSURE IT IS POSITIONED PROPERLY TO WITHSTAND THE RESULTANT FORCES AT EACH BEND, FITTING, ETC. AND SHALL BEAR ON STABLE UNDISTURBED GROUND CAPABLE OF WITHSTANDING THE POTENTIAL LOADING

IN ADDITION TO THE RESTRAINT OF ALL BENDS, FITTINGS, TEES, VALVES, DEAD END, ETC THE CONTRACTOR SHALL ALSO SECURE/RESTRAIN ALL JOINTS FOR AT LEAST THREE (3) PIPE JOINTS (50) LF MIN) ON BOTH SIDES OF EACH DEAD END. BEND, FITTING, VALVE, TEE, ETC, UTILIZING MEGALUGS, FIELD LOK GASKETS, OR APPROVED EQUAL.

THE CONTRACTOR SHALL PROVIDE LET VERTICAL CLEARANCE BETWEEN PROPOSED WATERLINES AND ANY SANITARY SEWERS WHEN 18" CLEARANCE BETWEEN A WATERLINE AND SANITARY SEWER CANNOT BE OBTAINED THE CONTRACTOR SHALL PROVIDE CONCRETE ENCASEMENT AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE 12" MINIMUM CLEARANCE BETWEEN WATERLINE AND STORM SEWER. THE CONTRACTOR SHALL MAINTAIN TEN (10) FOOT HORIZONTAL CLEARANCE BETWEEN WATERLINES/SERVICES AND SANITARY SEWERS AND FOUR (4) FOOT HORIZONTAL CLEARANCE BETWEEN WATERLINES/SERVICES AND STORM SEWERS.

FIRE HYDRANTS SHALL BE MUELLER A423 MEETING THE CITY OF CANTON WATER DEPARTMENT STANDARDS AND
REQUIREMENTS. ALL COSTS FOR THE 6" PIPING ASSOCIATED
WITH THE INSTALLATION OF FIRE HYDRANTS SHALL BE INCLUDED With the fire hydrant pay item—all hydrants will be INSTALLED WITH THE PUMPER NOZZLE FACING THE STREET

ALL WATER SERVICES MUST BE INSTALLED BEFORE ANY PAVEMENT FOR THE PROPOSED ROADWAYS HAS BEEN PLACED CONTRACTOR IS NOT TO MAKE ANY SERVICE TAPS ON THE WATER MAIN. THE CANTON WATER DEPARTMENT WILL MAKE ALL

THE PROPOSED FACILITIES WILL MAINTAIN A MINIMUM 35 PSI PRESSURE DELIVERED TO THE CURB STOP DURING NORMAL OPERATING CONDITIONS

BOOSTER PUMPS ARE NOT PERMITTED ON SERVICE CONNECTIONS.

ALL DUCTILE IRON PIPE, INCLUDING FITTINGS AND APPURTENANCES BURIED UNDERGROUND, SHALL BE ENCASED WITH 8 MIL POLYETHYLENE FILM CONFORMING TO AWWA C105

POLYETHYLENE WATER MAIN AND SERVICE TUBING 2" AND UNDER SHALL BE COPPER TUBE SIZE AND MEET STANDARDS ASTM-D2737 PE3408 AND AWWA C906. THE CNLY ACCEPTED TUBING IS OF CHEM PERFORMANCE PIPE DRISCOPLEX 5100-ULTRA-LINE

THE CONTRACTOR SHALL TAKE ANY AND ALL NECESSARY PRECAUTIONS TO PROTECT AND MAINTAIN IN SERVICE, ANY EXISTING WATER MAINS EXPOSED DURING CONSTRUCTION.

ANY WATER SERVICE LINE THAT IS BROKEN, CUT OR OTHERWISE DAMAGED, SHALL BE REPLACED FROM THE CORPORATION STOP TO THE CURB STOP WITH A SINGLE PIECE OF PLASTIC SERVICE LINE (DRISCOPLEX). NO SPLICING OF THE SERVICE LINE WILL

SERVICE BRANCHES WILL BE INSTALLED AS PER O.D.O.T. ITEM 638.16 WITH THE FOLLOWING EXCEPTIONS
1. WHEN A SERVICE BRANCH IS DISTURBED FOR LOWERING, RAISING, EXTENDING OR SHORTENING ON THE PROPERTY SIDE ON THE SERVICE STOP, IT SHALL BE REPLACED WITH NEW MATERIALS FROM THE CORPORATION STOP TO THE SERVICE STOP

IN A STREET IMPROVEMENT, NO EXISTING WATER CURB BOX WILL BE LEFT IN THE PAVEMENT, CURB AND SUTTER OR SIDEWALK THE CURB BOX WILL BE MOVED TO A SUITABLE LOCATION DETERMINED BY THE CANTON WATER DEPARTMENT WHEN THE CURB BOX IS MOVED ALL NEW MATERIAL WILL BE USED FROM THE CORFORATION STOP TO THE THE CURB STOP WHICH IS A SINGLE PIECE OF PLASTIC SERVICE LINE (DRISCOPLEX) NO SPLICING OF THE SERVICE LINE WILL BE PERMITTED. A NEW TAP (CORPORATION STOP) AND CURB STOP AND BOX MAY ALSO BE RECUIRED THE DETERMINATION WILL BE MADE BY THE CANTON WATER DEPARTMENT

ALL WATER MAINS WILL BE INSTALLED UNDER THE PAVEMENT WITH A MINIMUM OF 3 FEET FROM THE FDGE OF PAVEMENT OR THE CURB AND/OR GUTTER. IN EXISTING STREETS, A SAW CUT WILL BE MADE TO ENSURE A CLEAN EDGE

WHEN AN EXISTING WATER MAIN MUST BE SHUT DOWN TO PERFORM REQUIRED WORK, THE PROPERTIES TO BE EFFECTED SHALL BE GIVEN A MINIMUM 24 HOUR NOTICE OF SAID SHUT DOWN. THE WORK WILL BE SCHEDULED AND COORDINATED TO MINIMIZE THE TIME THE MAIN IS OUT OF SERVICE

THE CONTRACTOR SHALL NOTIFY THE CITY 48 HOURS IN ADVANCE OF ANY SHUT DOWN OF AN EXISTING WATER MAIN THE CONTRACTOR WILL NOT OPERATE ANY VALVES. VALVES WILL BE OPERATED BY CANTON WATER DEPARTMENT PERSONNEL ONLY. VALVES DAMAGED BY THE CONTRACTOR'S OPERATION WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE

ALL VALVE BOXES WILL BE ADJUSTED TO FINAL GRADE OF THE PAVEMENT WHEN THE PROJECT IS COMPLETED

IX. FCST CONSTRUCTION INCIDENTALS

(A) AS-BUILT DRAWINGS (PRIVATE PRUJECTS).

AS-BUILT REPRODUCIBLE MYLARS SHALL BE PROVIDED TO THE CITY OF CANTON BY THE DESIGN ENGINEER AT THE COMPLETION OF THE PROJECT. THE CONSTRUCTION BOND WILL NOT BE RELEASED UNTIL THE AS-BUILT DRAWINGS HAVE BEEN

(9) PROPOSED MONUMENTATION

THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER IN WRITING UPON THE COMPLETION OF MONUMENTS BEING SET AS PER PLAN OR RECORD PLAT.

(C) RELEASE OF PETAINER/BONDS

PRIOR TO THE RELEASE OF RETAINER/CONSTRUCTION BOND BY THE CITY OF CANTON, THE CONTRACTOR SHALL HAVE COMPLETED THE ENGINEER'S PROJECT PUNCHLIST AND SUBMIT. FINAL WAIVER OF LIEN, IN ACCORDANCE WITH CITY SS 01-00.

CONTROL POINT

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51	409816 44	2287510.63	1059 24
55	409745 16	2287053.87	1049 54

1	LEGEND
R/W	RIGHT OF WAY
ç	CENTER LINE
P.	PROPERTY LINE
lę_	LOT LINE
0	EX MONUMENT FOUND (AS NOTED)
•	1/2 INCH IRON BAR W/ H&A CAP SET
()	RECORD BEARINGS & DISTANCES
E.O.P	EDGE OF PAVEMENT
F.F.	FINISH FLOOR ELEVATION
	FENCE (AS NOTED)
	GUARD RAIL
121	MAILBOX
0	POST
ø ∓	POWER POLE
₫	TELEPHONE POLE
⊈ ø	TELEPHONE/ LIGHT POLE
ø	TELEPHONE/ POWER POLE GENERAL POLE
ø.	LIGHT POLE
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ø.	LIGHT/ POWER/ TELEPHONE, CABLE TV POLE
<u>.</u> Ш	ANCHOR
	RAIL RCAD
ť	SIGN (AS NOTED)
	TREE (AS NOTED)
-	H C RAMP W/ TRUNCATED DOME
T/G	TOP OF GRATE
T/C	TOP OF COVER
· (FLOW LINE
-TV- S	CABLE LINE CABLE BOX
-E-	ELECTRIC LINE
2	ELECTRIC BOY
-G-	GAS LINE
©	GAS LINE MARKER
-5-	SANITARY SEWER LINE
0	EX MANHOLE (AS NOTED)
•	PROP MANHOLE (AS NOTED)
CO	CLEAN OUT
-ST-	STORM SEWER LINE
	EX STORM C P
YD	PROP STORM CB YARD DRAIN
FD	FLOOR DRAIN
RD	ROOF DRAIN
DS	COWN SPOUT
-7-	TELEPHONE LINE
23	TELEPHONE BOX
~ W-	WATER LINE
54	EX FIRE HYDRANT
₩	PROP FIRE HYDRANT
•	EX VALVE (AS NOTED)
H	PROT VALVE (AS NOTED)
	EX CONTOUR LINE
	PROF CONTOUR LINE

CONTOUR LABEL

SOIL BORING

+98025 SPOT ELEVATION

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HAMMONTREE & ASSOCIATES, ENDINERS, SURVEYORS CANTON-ARRON-PITSBURGH

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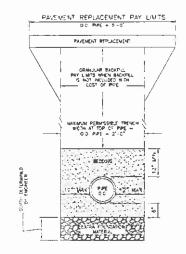
CENERAL NOTES
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SCALES

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GRANULAR BACKFILL, PAVEMENT & EXTRA FOUNDATION MATERIAL PAYMENT LIMITS

EXTRA FOUNDATION MATERIAL

WHEN IN THE OPINION OF THE ENGINEER, SOFT UNSTABLE MATERIALS ARE ENCOUNTERED WHICH ARE UNSUITABLE FOR SEDDING FOUNDATION, SAID MATERIAL SHALL BE REMOVED BY THE CONTRACTOR TO THE EDRINGER AND REPLACED WITH SUITABLE MATERIAL IF SUITABLE REPLACEDENT MATERIALS ARE NOT FOUND IN EXCAVATION, THEY SHALL BE PAID FOR UNDER THIS SECTION

MATERIAL

OFFICE OF THE CITY ENGINEER

CANTON, OHIO

DANIEL J. MOEGLIN, P.E., CITY ENGINEER

2436 30th STREET N.E. 44705 (330)489-3381

SHALL CONSIST OF RUN-OF-MINE GRAVEL, GRAVEL, CRUSHED STONE OR SLAG TO THE SATISFACTION OF THE ENGINEER

ROCK EXCAVATION PAY LIMITS

PAYMENT:

THE PRICE BID AND PAID THE CONTRACTOR FOR EXTRA FOUNDATION MATERIAL SHALL BE PER CURIC MARD PLACES, AS NAMED IN THE FROPOSAL THERETOR, AND SHALL INCLUDE ALL LARGE AND MATERIALS INCLIDENTAL TO THE FURNISHING AND PLACING OF EXTRA FOUNDATION MATERIAL INCLUDING THE EXCAMATION OF THE MATERIAL TO BE REPLACED, SPECTING, BRACING, PERMONAL OF SURPLUS MATERIALS AND GRADING OF THE EXTRA FOUNDATION MATERIAL

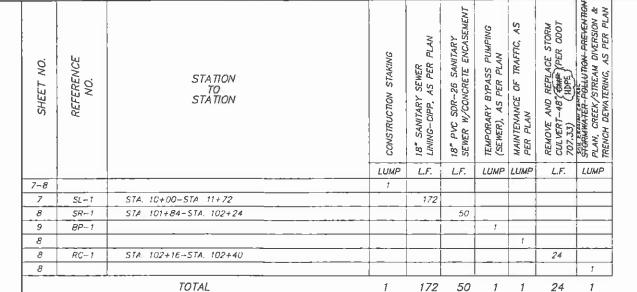
STANDARD DRAWING NO. 32

PAY LIMITS - TRENCHES.

ROADWAYS & STRUCTURES

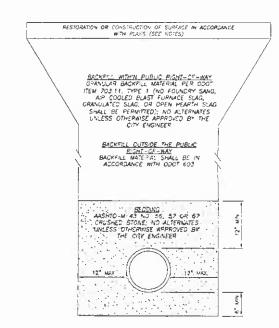
ROCK EXCAVATION FOR STRUCTURES, UNLESS OTHERWISE SPECIFIED OR SHOWN ON THE DRAWINGS, SHALL BE MEASURED BETWEEN VERTICAL PULVES ONE (1) FOOT BEYOND THE NEAT LINES OF THE FOUNDATION OF THE STRUCTURES ON ALL SIDES, AND PARALLEL THERETO, AND FROM THE SURFIXED OF THE ROCK TO THE NEAT LINES OF THE BOTTOM OF THE STRUCTURES.

REVISIONS		CRAWN BY	Due	DATE: A	NUGUST 200		
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THE UNIT PRICE FOR THE SEWER REPLACEMENT ITEM IN THE BID SHALL INCLUDE VIDEO TELEVISING OF THE SANITARY SEWER LINE AFTER THE REPLACEMENT OF THE SEWER TO OBSERVE THE CONNECTION TO SANITARY SEWER UPSTREAM AND DOWNSTREAM OF THE REPLACEMENT PUPS. MOVED TO SHEET IL OF THE REPLACEMENT PUPS.

GENERAL SUMMARY OF QUANTITIES



NOTES:

BEDDING FOR REINFORCED CONCRETE PIPE SHALL EXTEND 3 BELOW THE BOTTOM OF PIPE AND FLUSH WITH THE TOP OF PIPE.

INSTALLATION METHODS OF BACKFILL AND BEDDING MATERIAL SHALL CONFORM MITH ODOT 603. ALL BACKFILL UNDER STREET PAYEMENT SHALL BE PLACED IN LANEAS NOT TO EXCRED 8-MOMES ICOSE DEPTH AND COMPACIES BY APPROVED MECHANICM MEANS ALL MATERIALS USED INVIER FAVORENTS SHALL BE GRANULAR MATERIAL (PER THE ABOVE NOTED PEOUREMENTS), AND SHALL CONTAIN NO CLAY JETTING IS NOT APPROVED WITHOUT THE CITY ENGINEER'S APPROVED.

TRENCH SURFACE
ALL TRENCHES SHALL BE TOPPED WITH 4" OF ODOT
304 LIMISTONS WITHIN EXISTING ROADINAT PAYEMENTS
WHEN THE ROADINAY WILL BE OPENED TO VEHICULAR
TRAFFIC PRICE TO PAYEMENT REPLACEMENT. THE
TRENCH TOPPING MATERIAL SHALL BE ROLLED OR
OTHERWISE COMPLETED FLUSH WITH THE ADVOINING
PAYEMENT.

ROAD PAVEMENTS SHALL BE REPLACED IN ACCORDANCE WITH CITY STANDARD DRAWING NO. 44

LAWN SURFACES SHALL BE REPLACED WITH A MINIMUM OF 4" TOPSOIL, SEEDED, AND MULCHED SEED MIX SHALL CONFORM TO ADJOINING LAWN GRASS

	TRENCH WIDTH
	CD + 17'
ODOT CLASS 'C CONCRETE MUST BE POURED FULL WIDTH OF TRENCH MONOLITHICALLY	OJISO: STANSTER 6 OF CONC CONC
e, or concaele	4 4
18" PVC SOR-26 PIPE "	. ().
8" OF CONCRETE	A 4 4

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CONCRETE ENCASEMENT

OFFICE OF THE CITY ENGINEER CANTON, OHIO DANIEL J. MOEGLIN, P.E., CITY ENGINEER 2476 30th 57F(E" N E 44705 (330)439-3381

STANDARD DRAWING NO. 29 BACKFILL & BEDDING FOR UTILITY DITCHES

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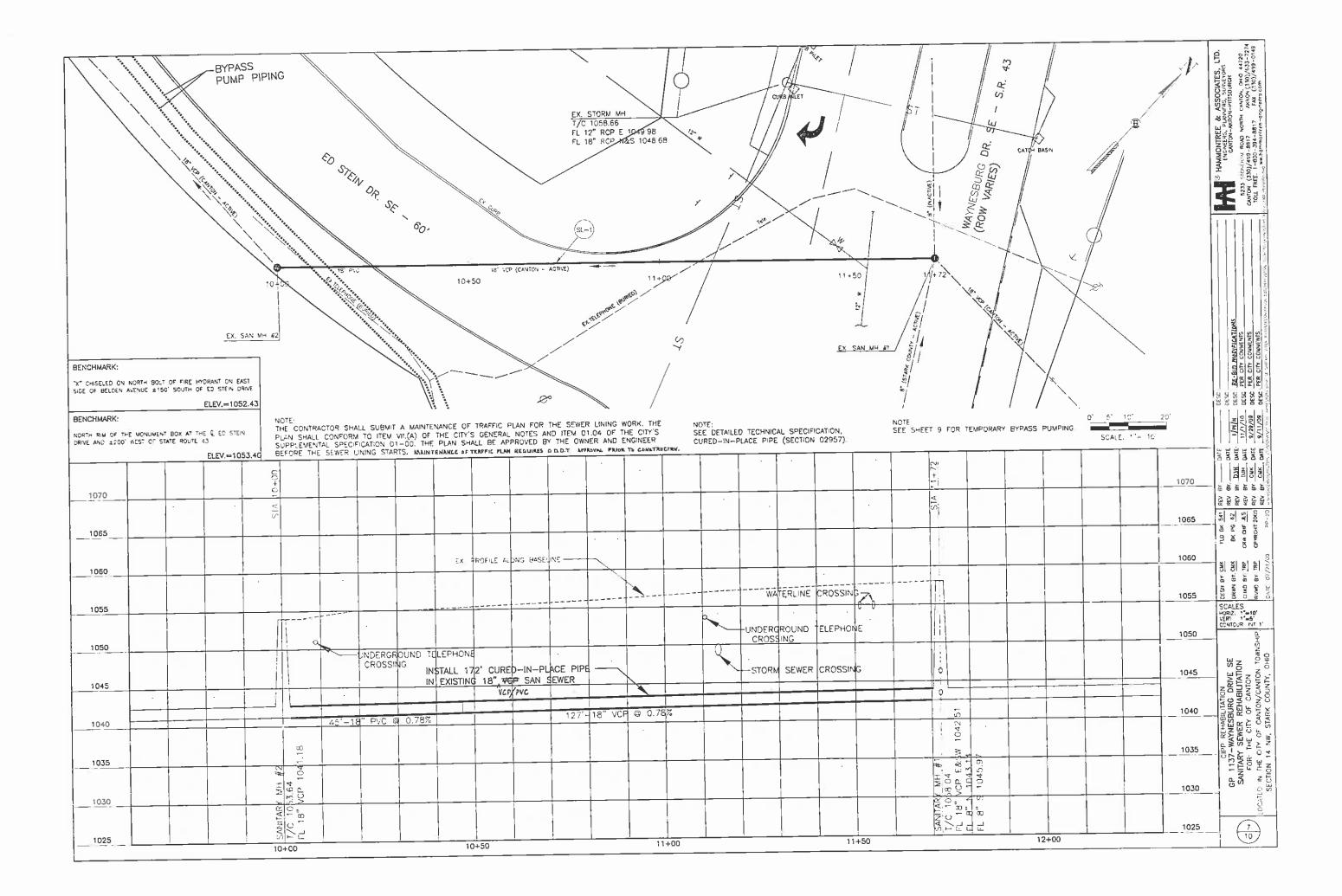
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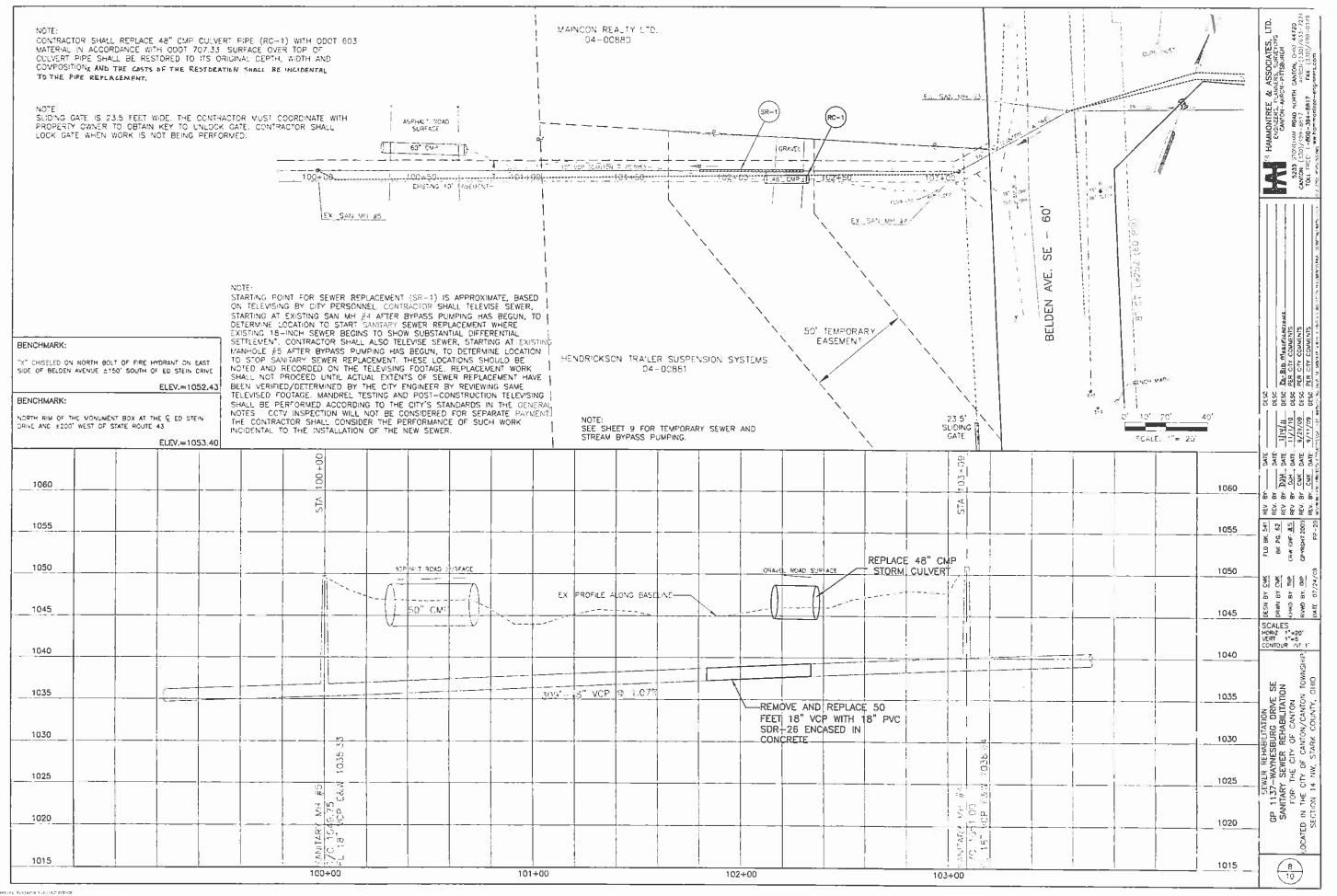
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GP 1137—WAYNESBÜRG DRIVE SE
SANITARY SEWER REHABILITATION
FOR: THE CITY OF CANTON
ED IN THE CITY OF CANTON
SECTION 14 NW. STARK COUNTY, OHIO

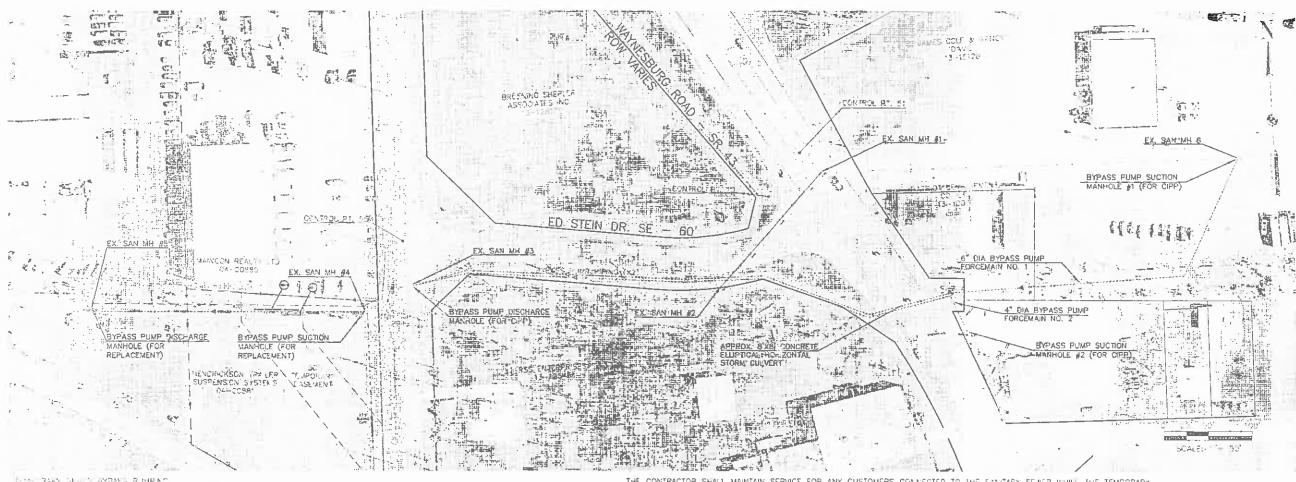
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HAMMONTREE & ASSOCIATES, LTD. ENGINEERS, PLANNERS, SURVEYORS CANTON-ARON-PITSBURGH

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THE CONTRACTOR SHALL PROVIDE TEMPORARY UMPASS PUMPING FOR SEWER LINING AND SEWER REPLACEMENT PROJECTS THE TEMPORARY SYPASS PUMPING WILL MAVE THE FOLLOWING MINIMUM REQUIREMENTS.

- A PROVIDE 2 PUMPS, EACH CAPABLE OF THE MINIMUM REQUIREMENTS NOTED BELOW, WITH POSSIBLE PERIODS OF LITTLE OR NO MASTEMATER FLOW
- B. PUMPS SHALL BE SELF-PRIMING, (REQUIRING NO SPECIAL EQUIPMENT FOR THE PRIMING), WITH THE FOLLOWING REQUIREMENTS FOR EACH PROJECT
 - SEWER THING (CIPP) 2 LOCATION'S
 - 5 DIAMETER SETUR CAPABLE OF PUMPING 2.5 MILLION SALLONS PER DAY (MOD), MINIMUM SUCTION HEAD OF 16 FEET (EXISTING SAN MILLIAGO) AND LENGTH OF APPROXIMATELY 1.050 FEET (TO EXISTING SAN MILLIAGO).
 - 4" DIAMETER SETUP CAPABLE OF PUMEINS TO MILLION GALIGINS PER DAY (MGD) MINIMUM SUCTION HEAD OF 12 FEET (EXISTING STARK COUNTY SAN MH) AND LENGTH OF APPROXIMATE Y 680 FEET (TO EXISTING SAN MH
 - 2 SEWER REPLACEMEN'. CAPABLE OF PUMPING 2D MILION GALLONS PER DAY (MGD), SUCTION HEAD OF 13 FEFT (EXISTING SAN, MH #4) AND LENGTH OF APPROXIMATELY 305 FEFT (ID EXISTING SAN, MH #5)
- C PUMPS SHALL BE POWERED BY DIESEL FUEL OR MAPROVED ALTERNATIVE
- D. MUFFLERS SHALL BE INSTALLED ON EACH PUMP TO MINIMIZE NOISE
- E. PUMPS SHALL HAVE AUTOMATIC AND MANUAL START/STOP CONTROLS

CONTRACTOR SHALL USE PROPER PLUGS TO PLUG THE DOWNSTREAM 18' SEWER FOR THE FOLLOWING PROJECTS DURING THE TEMPORARY BYPASS PUMPING

- A. SEWER LINING LOCATION NO. 1 DOWNSTREAM 18 SEWER IN EXISTING SAN MH #6 LOCATION NO. 2 DOWNSTREAM 8" SEWER IN EXISTING STARK COUNTY SANDARY MANHOLE.
- B SEWER REPLACEMENT DOWNSTREAM 18" SEWER IN EXISTING SAN, MH #4

THE TEMPORARY PIPING SHALL BE RIGID WITH BALL AND SOCKET CONNECTIONS, PROVIDING LEAK-PROOF PIPE WITH DEFLECTIONS UP TO 20% HOPE PIPE (FUSED) IS THE ONLY ALLOWABLE ALTERNATE FOR THIS GIPING

THE CONTRACTOR SHALL PROVIDE A WORKING TEMPORARY SYPASS PUMPING SYSTEM THAT MEETS OSHA REQUIREMENTS AND IS PROPERLY OPERATED AND MAINTAINED WHILE THE PUMPING 5 PERFORMED.

THE CONTRACTOR SHALL MAINTAIN SERVICE FOR ANY CUSTOMERS CONNECTED TO THE SANITARY SEWER WHILE THE TEMPORARY BYPASS PUMPING IS PERFORMED BACK-UPS OF SANITARY SEWER SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR ALL COSTS AND LEGAL CLAIMS

THE COST OF THE TEMPORARY DWMASS PUMPING SHALL BE INCLUDED IN THE COST OF THE CONTRIBUTION AND SEWER-REPLACEMENT ITEMS IN THE DID.

WITH THE SHOP DRAWING SUBVITTALS FOR THE PROJECT, THE CONTRACTOR SHALL PROVIDE A WRITTEN PLAN FOR THE TEMPORARY BYPASS PUMPING. THE PLAN SHALL CONTAIN A PUMP DESCRIPTION AND CURVES, PING SHOP DRAWINGS, INFORMATION ON ALL ACCESSORIES AND A SCHEDULE FOR THE PUMPING CONSTRUCTION SHALL NOT START UNTIL THE PLAN IS APPROVED BY THE OWNER AND ENGINEER.

TEMPOPARY STREAM BYPASS FUMPING/TRENCH DEMATERING
THE CONTRACTOR SHALL PROVIDE TEMPORARY BYPASS PUMPING IN THE STREAM AND TRENCH WHERE THE SEWER PEPLACEMENT
WILL BE PERFORMED THE STREAM SHALL BE BARRICADED UPSTREAM AND DOWNSTREAM OF THE WORK AREA WITH APPROPRIATE
MATERIALS (SAND BASS, GEO-FABRIC, ETC.) TO PREVENT WATER FROM ENTERING THE DITEAM AND TRENCH THE PUMPS SHALL
BE PROPERLY SIZED TO NOT ALLOW THE STREAM TO BACK UP ABOVE ITS NORMAL CERTH OR TO ALLOW WATER TO ENTER THE
TRENCH THE SEWER REPLACEMENT AND RESTORATION OF THE STREAM CHANNE AND BED AND SEWER THE SHALL BE
COMPLETED BEFORE THE BYPASS PUMPING IS STOPPED.

BYPARS PUMP FLAN
GP 1137—WAYNESBURG DRIVE SE
SANITARY SEWER REHABILITATION
FOR THE CITY OF CANTON
OCATED IN THE CITY OF CANTON
SECTION 14 NW, STARK COUNTY, DHIO

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ASSOCIATES, IN PARTS SURVEYORS

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